

Name _____

Date _____

Algebra Review

Simplify.

1. $\sqrt{50}$

2. $\sqrt{108}$

3. $\sqrt{81}$

4. $\sqrt{45}$

5. $\sqrt{243}$

6. $\sqrt{\frac{16}{25}}$

7. $\sqrt{\frac{3}{8}}$

8. $\sqrt{\frac{5}{9}}$

9. $\frac{10}{\sqrt{24}}$

10. $2\sqrt{12} - 3\sqrt{27} + 2\sqrt{48}$

11. $3\sqrt{45} - 5\sqrt{80} + 4\sqrt{20}$

12. $3\sqrt{12} \cdot 2\sqrt{21}$

13. $-3\sqrt{24} \cdot 5\sqrt{20}$

To review the other Algebra problems please redo 2 problems from sections II-VI from the summer packet. Show work and answers below. **Pick any two.**

II. #1

II. #2

III. #1

III. #2

IV. #1

IV. #2

V. #1

V. #2

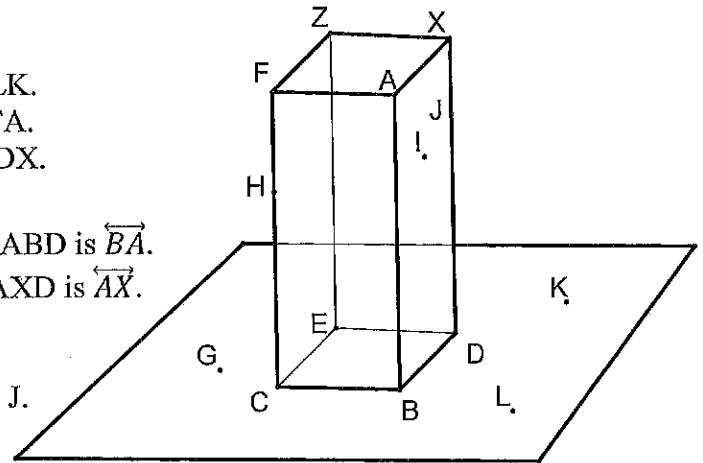
VI. #1

VI. #2

202 1.1 Review Extra questions.

True or False.

1. ☐ \overleftrightarrow{DB} and \overleftrightarrow{JX} intersect in point D.
2. ☐ \overleftrightarrow{FH} and \overleftrightarrow{CB} intersect in point H.
3. ☐ Another name for plane BCL is plane DLK.
4. ☐ Another name for plane ZFA is plane XFA.
5. ☐ Another name for plane EDL is plane EDX.
6. ☐ Another name for \overleftrightarrow{JD} is \overleftrightarrow{XD} .
7. ☐ The intersection of plane HBC and plane ABD is \overleftrightarrow{BA} .
8. ☐ The intersection of plane ECL and plane AXD is \overleftrightarrow{AX} .
9. ☐ Any 3 points are coplanar.
10. ☐ Any 2 points are collinear.
11. ☐ Name a point coplanar with A, I, and J.
12. ☐ Name a point collinear with D and J.



Draw and label the following.

Planes P and Q intersecting in \overleftrightarrow{AB}

\overleftrightarrow{CD} and \overleftrightarrow{EF} intersecting in G

3 coplanar points

3 non-collinear points

A plane containing 2 intersecting lines

Plane RST intersecting line l

1-1 Skills Practice

Points, Lines, and Planes

Refer to the figure.

1. Name a line that contains point D .
2. Name a point contained in line n .
3. What is another name for line p ?
4. Name the plane containing lines n and p .

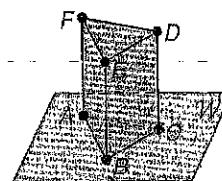


Draw and label a figure for each relationship.

5. Point K lies on \overleftrightarrow{RT} .
6. Plane J contains line s .
7. \overleftrightarrow{YP} lies in plane \mathcal{B} and contains point C , but does not contain point H .
8. Lines q and f intersect at point Z in plane \mathcal{U} .

Refer to the figure.

9. How many planes are shown in the figure?
10. How many of the planes contain points F and E ?
11. Name four points that are coplanar.
12. Are points A , B , and C coplanar? Explain.



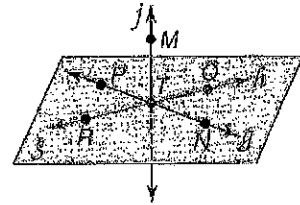
1-1

Practice

Points, Lines, and Planes

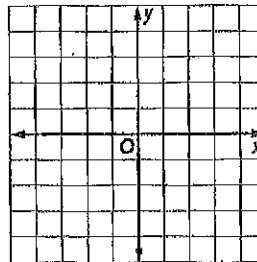
Refer to the figure.

1. Name a line that contains points T and P .
2. Name a line that intersects the plane containing points Q , N , and P .
3. Name the plane that contains \overleftrightarrow{TN} and \overleftrightarrow{QR} .



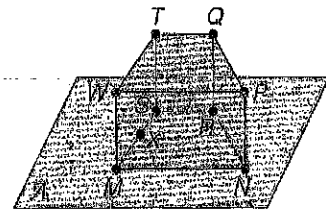
Draw and label a figure for each relationship.

4. \overleftrightarrow{AK} and \overleftrightarrow{CG} intersect at point M in plane T .
5. A line contains $L(-4, -4)$ and $M(2, 3)$. Line q is in the same coordinate plane but does not intersect \overleftrightarrow{LM} . Line q contains point N .

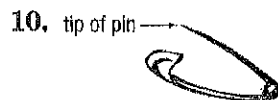
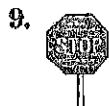


Refer to the figure.

6. How many planes are shown in the figure?
7. Name three collinear points.
8. Are points N , R , S , and W coplanar? Explain.



VISUALIZATION Name the geometric term(s) modeled by each object.



12. a car antenna

13. a library card